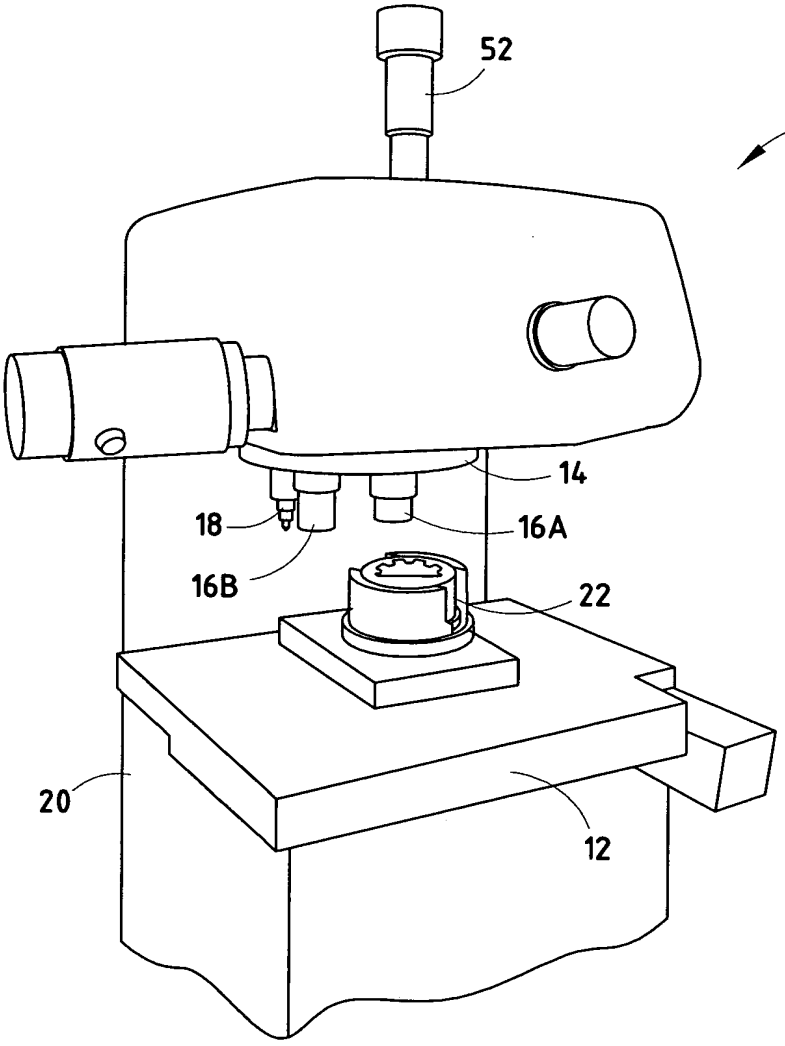

52
10
14
18
16A
16B
22
20
12

FIG. 1

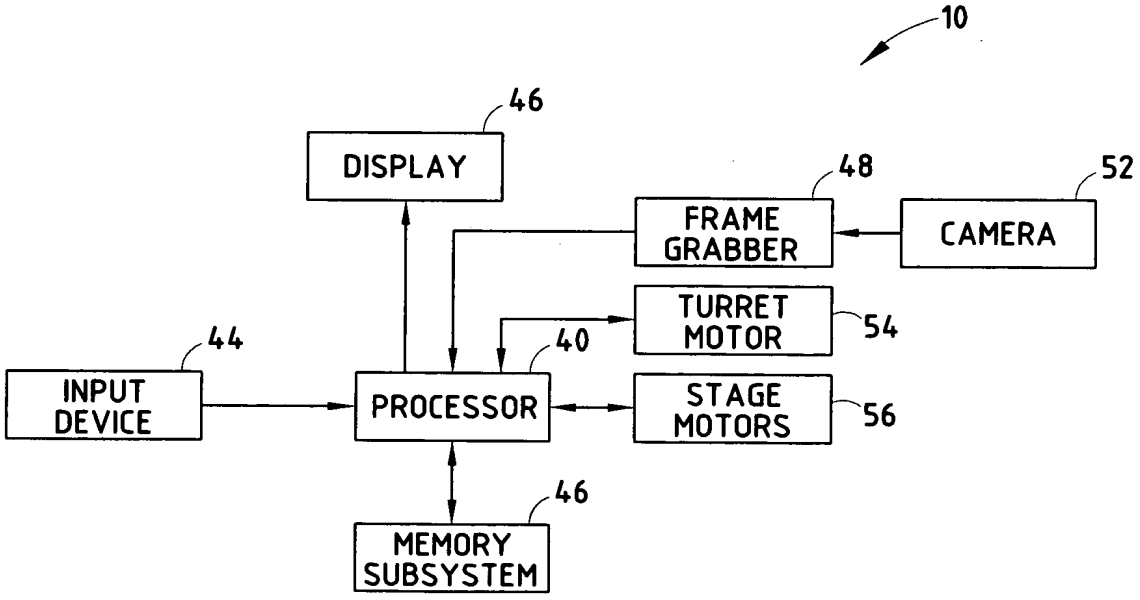

10
46
DISPLAY
48
52
FRAME GRABBER
CAMERA
TURRET MOTOR
54
44
40
INPUT DEVICE
PROCESSOR
STAGE MOTORS
56
46
MEMORY SUBSYSTEM

FIG. 1A

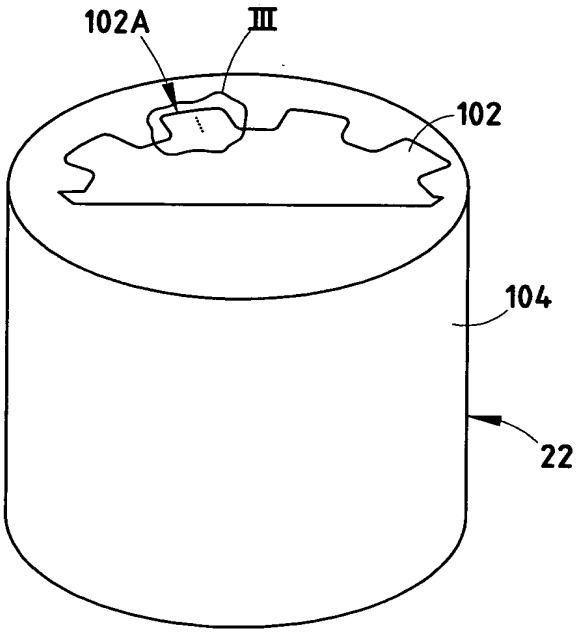


FIG. 2

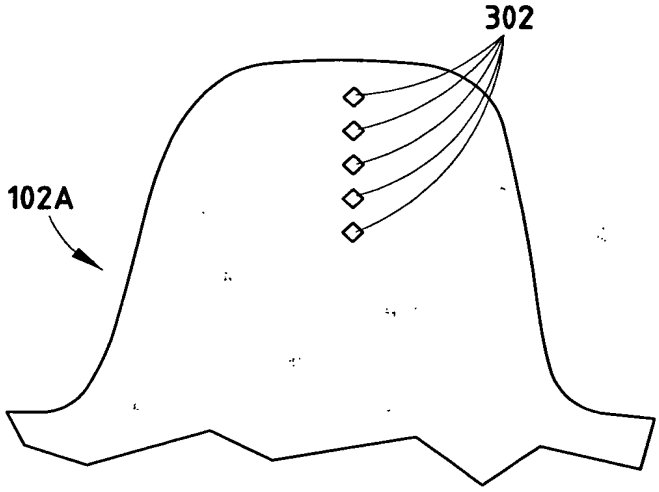


FIG. 3

PRIOR ART

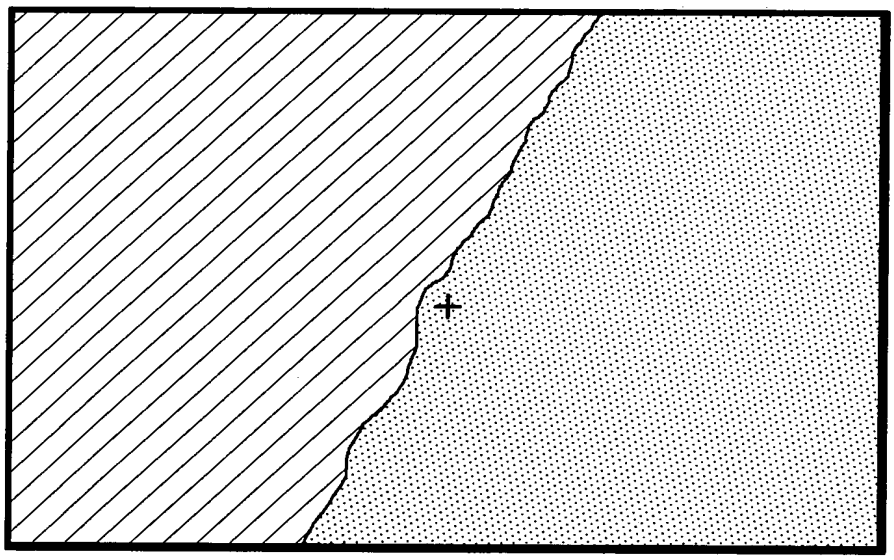


FIG. 4A

PRIOR ART

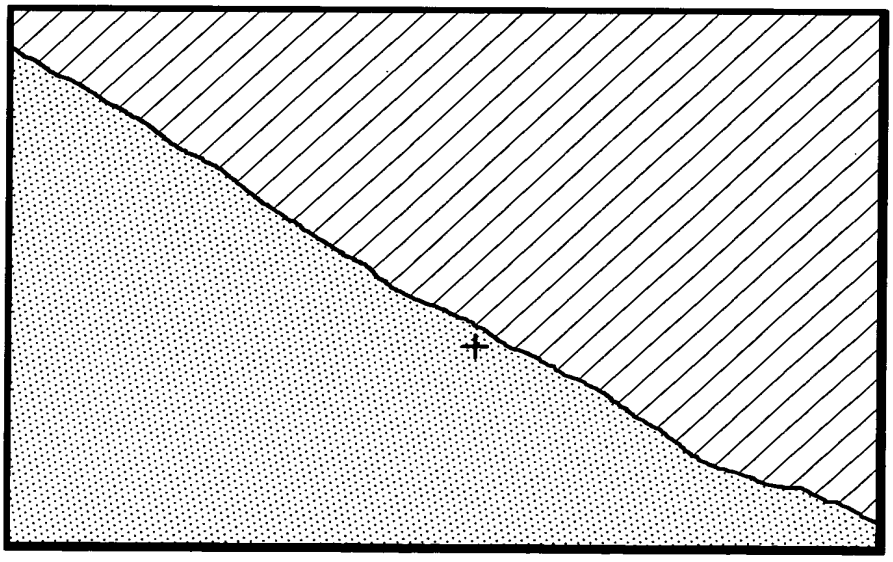


FIG. 4B

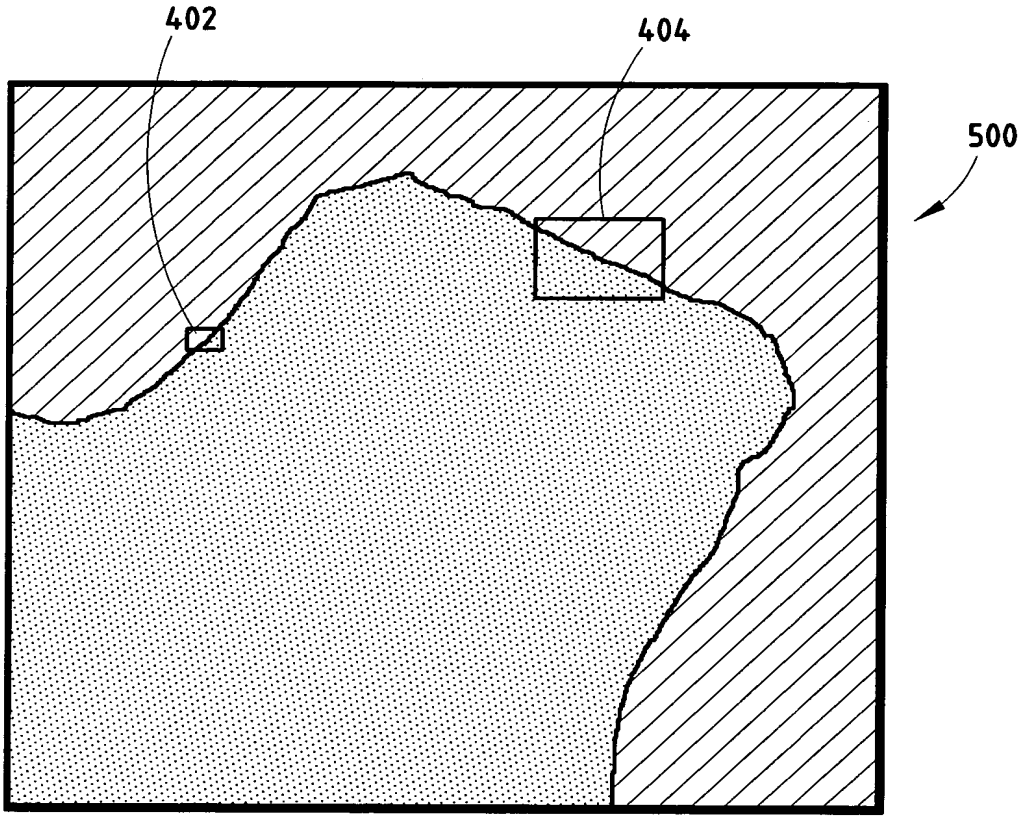
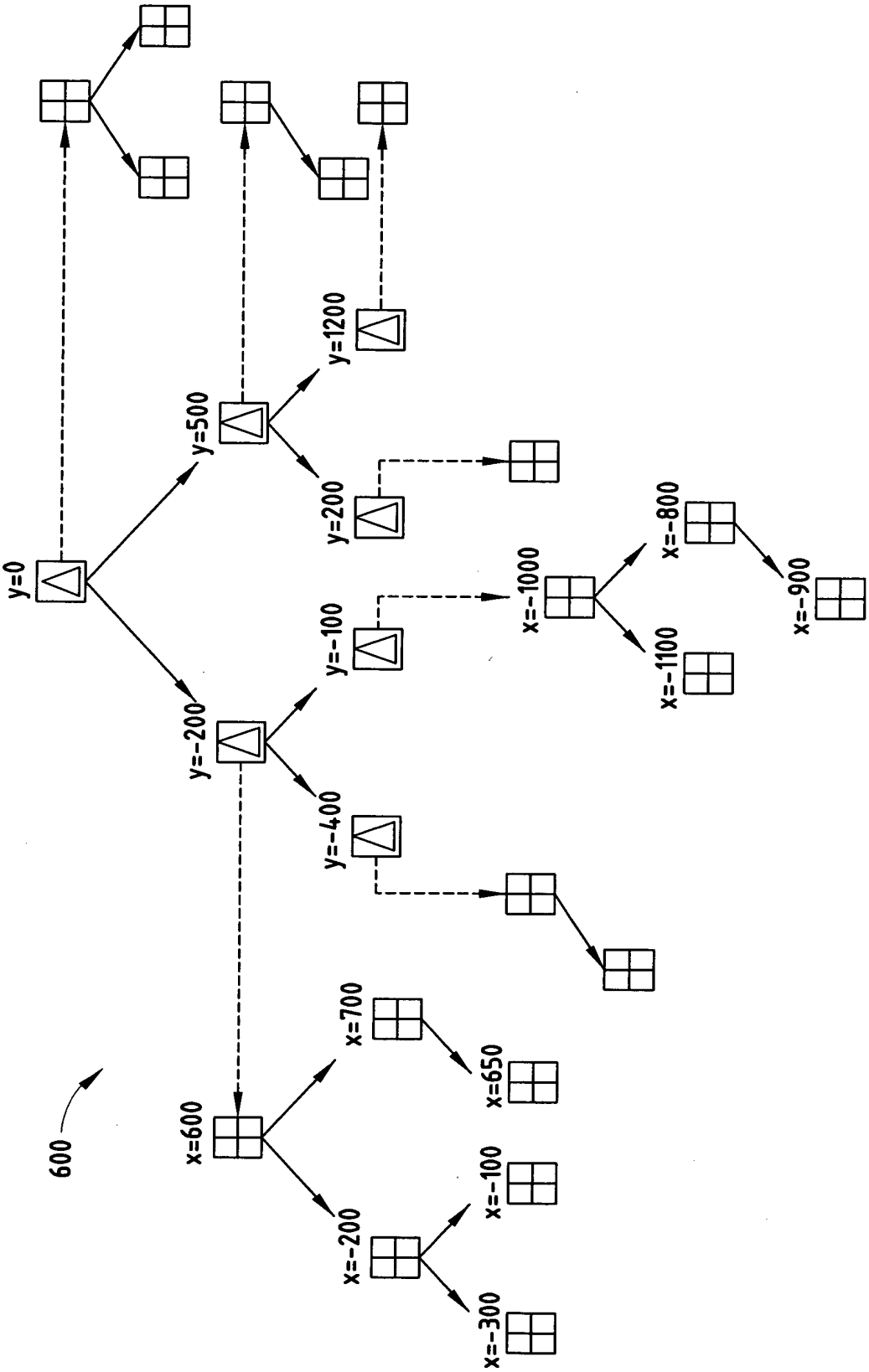


FIG. 5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y=500
y=1200
y=200
y=-200
y=-100
y=-400
x=-1000
x=-800
x=-900
x=-1100
x=600
x=700
x=650
x=-200
x=-100
x=-300
600

FIG. 6

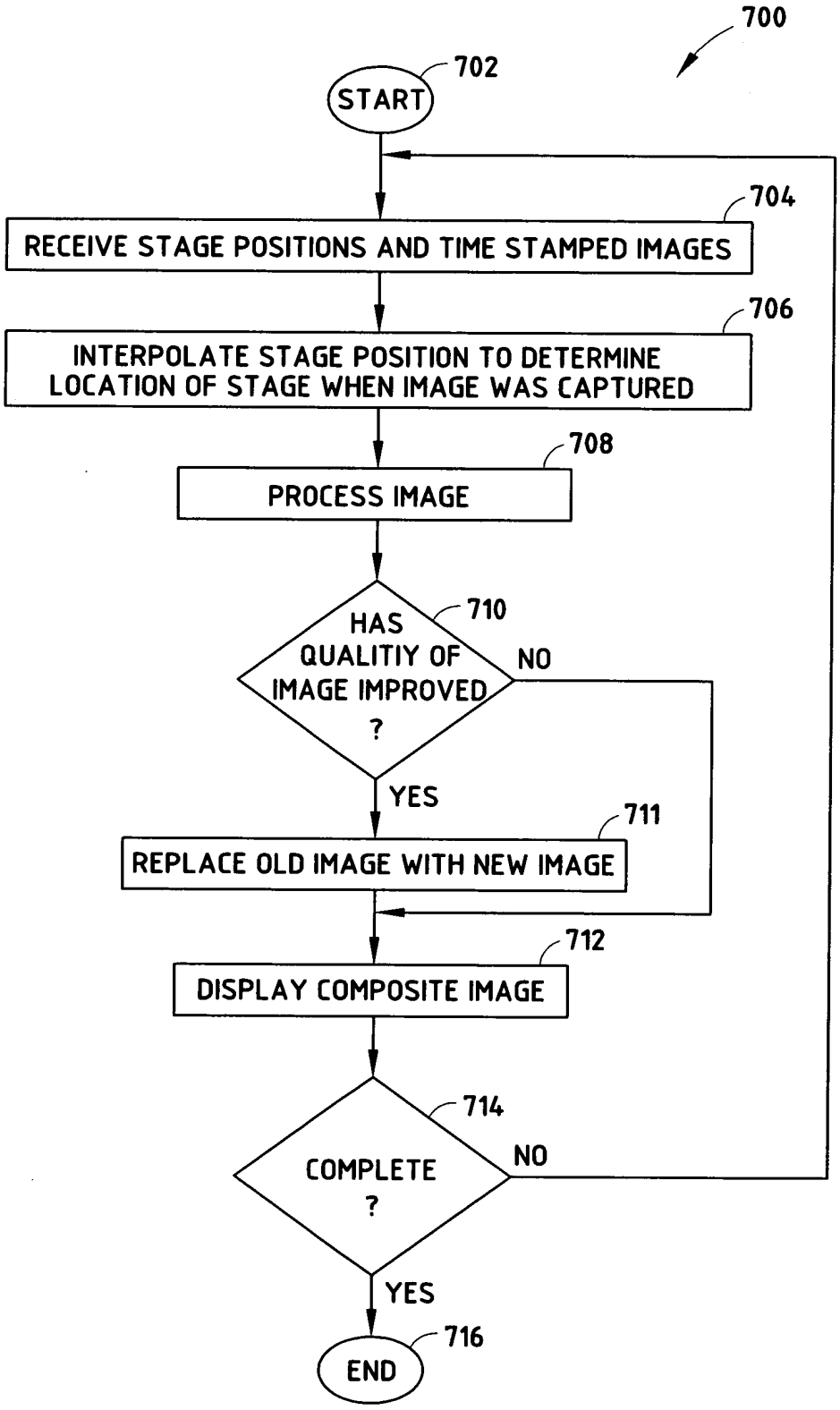
700
START
702
RECEIVE STAGE POSITIONS AND TIME STAMPED IMAGES
704
INTERPOLATE STAGE POSITION TO DETERMINE LOCATION OF STAGE WHEN IMAGE WAS CAPTURED
706
PROCESS IMAGE
708
HAS QUALITIY OF IMAGE IMPROVED ?
710
NO
YES
REPLACE OLD IMAGE WITH NEW IMAGE
711
DISPLAY COMPOSITE IMAGE
712
COMPLETE ?
714
NO
YES
END
716

FIG. 7

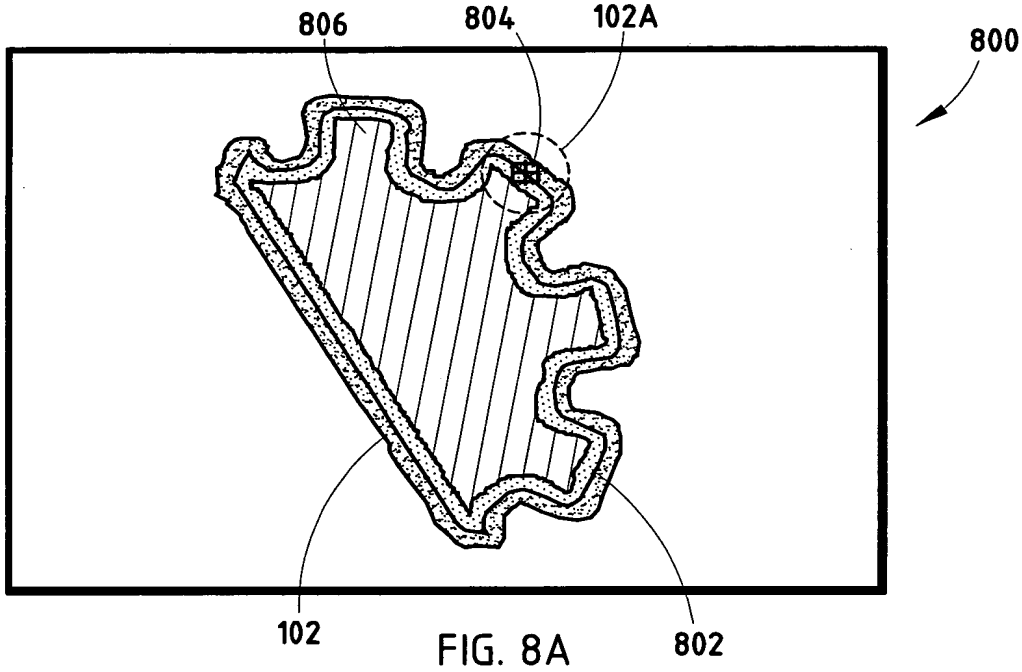

FIG. 8A

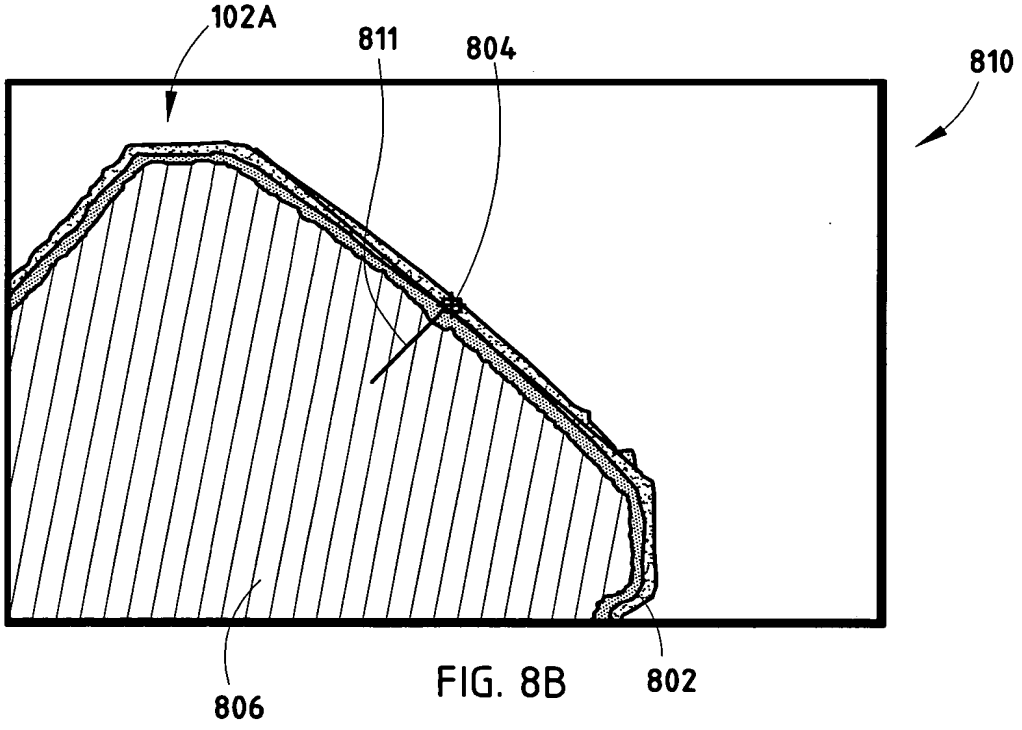

FIG. 8B

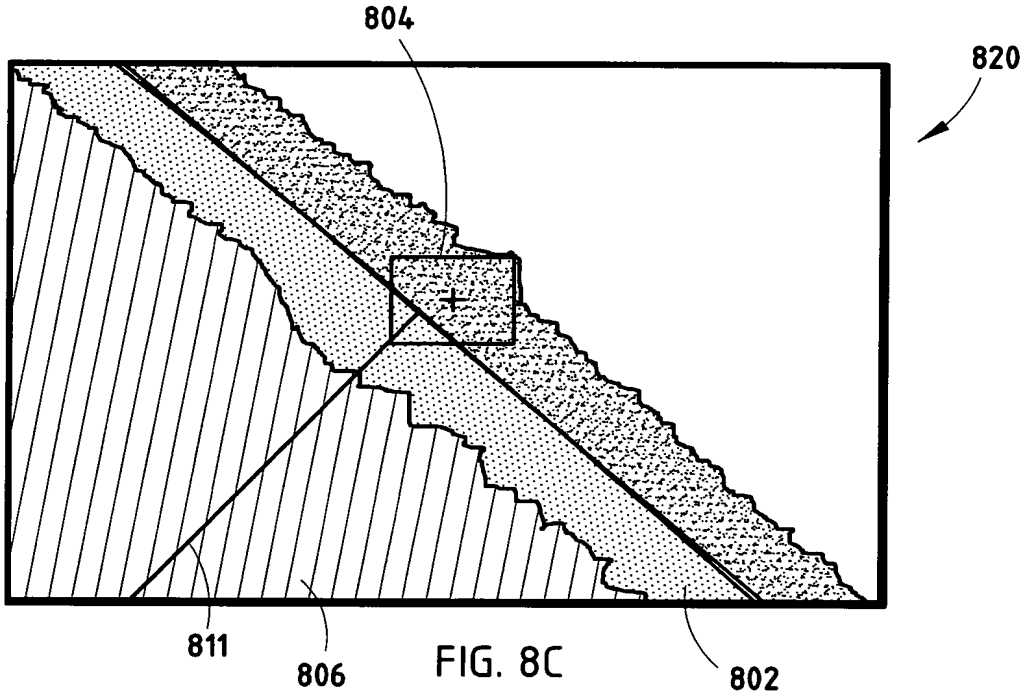

FIG. 8C

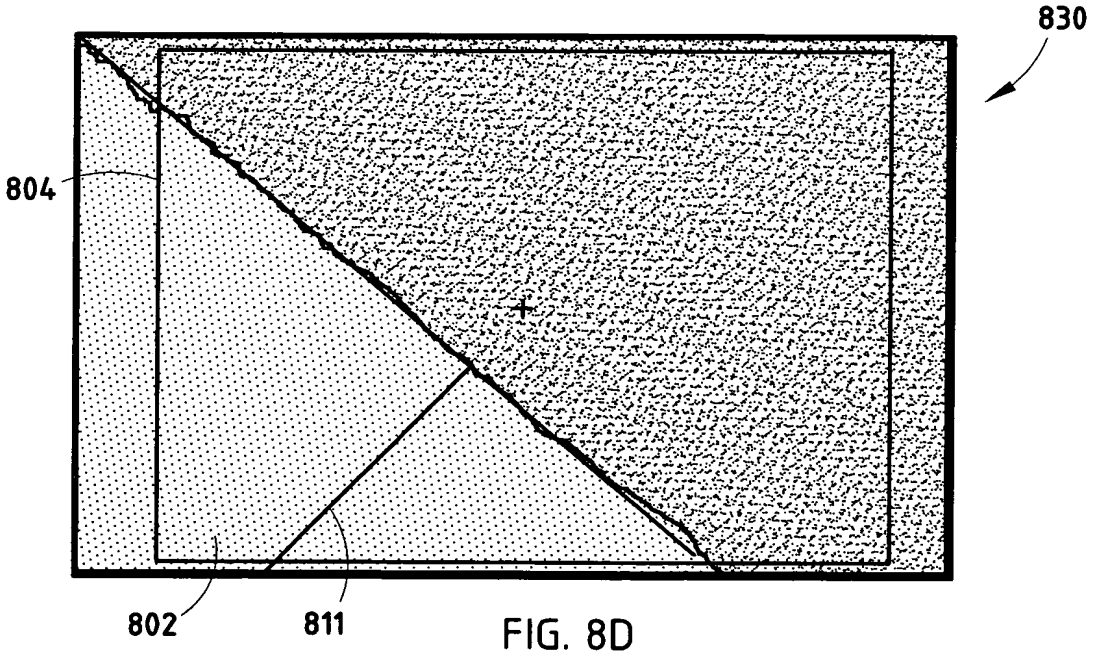

FIG. 8D

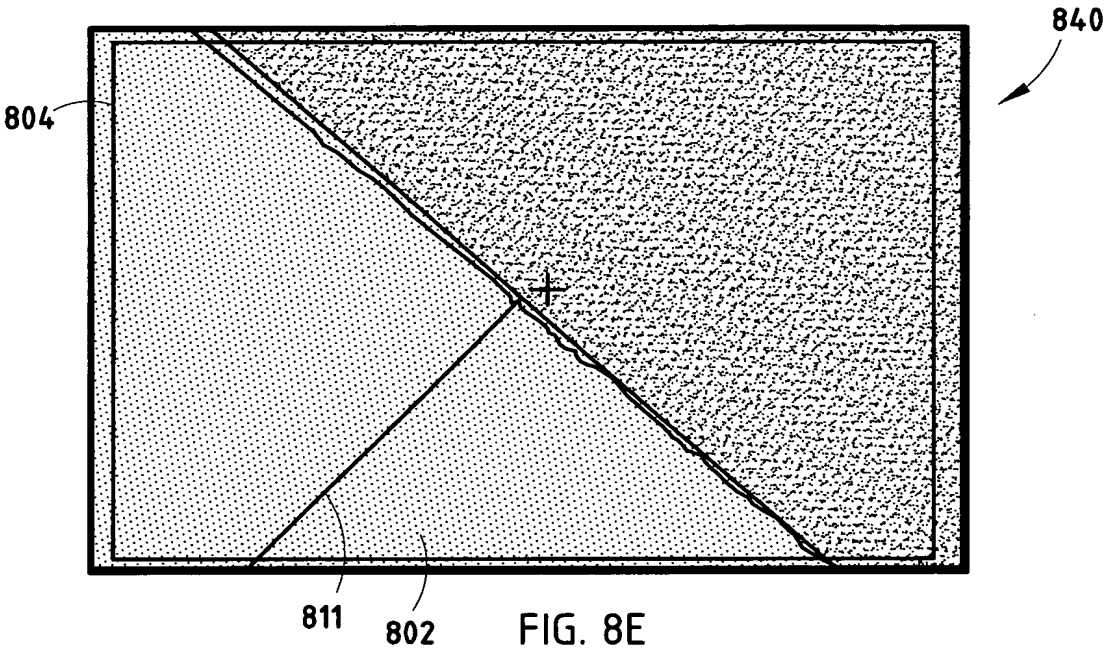

FIG. 8E

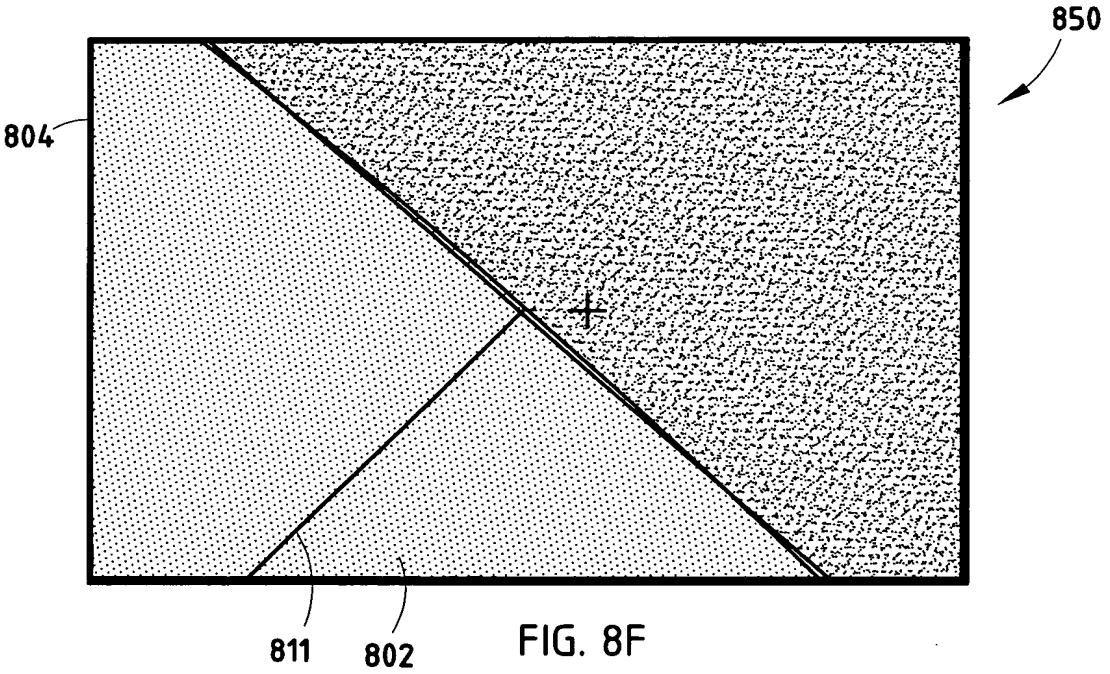

FIG. 8F

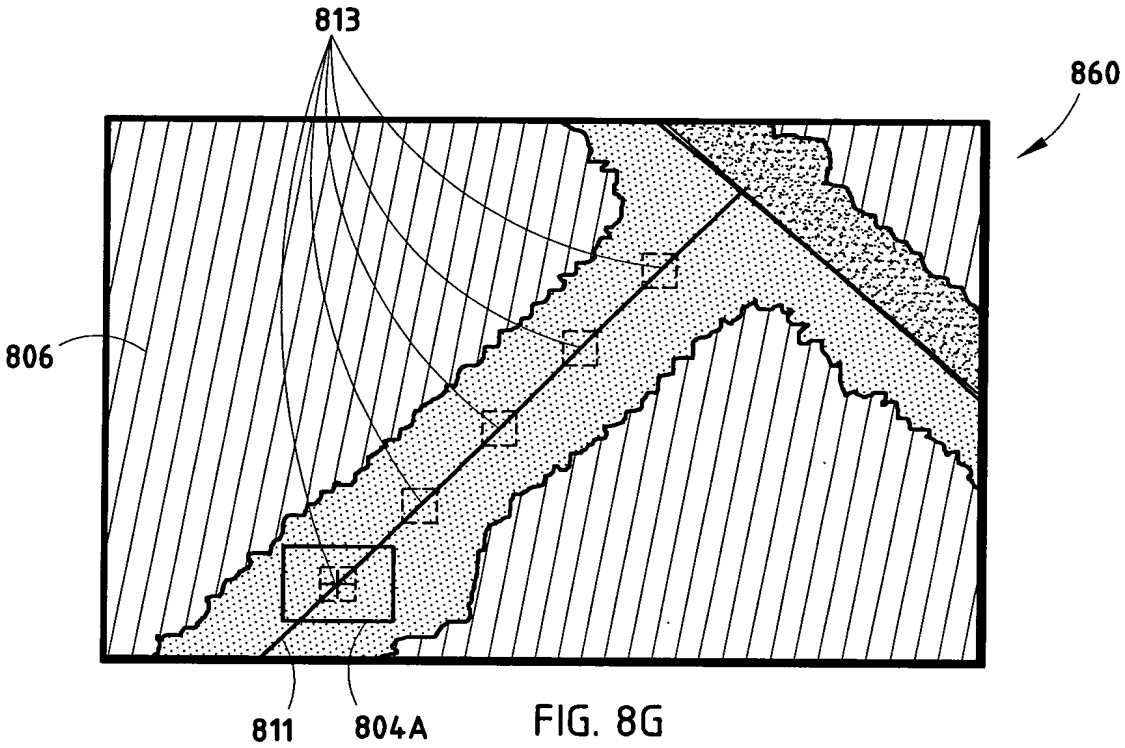

FIG. 8G